

Amendments to the Drawings:

The attached replacement drawing sheets makes changes to Figs. 13 and 14, and replace the original sheets with Figs. 13 and 14.

Attachment: Replacement Sheets

REMARKS

Claims 1-8, 10-12, and 15-18 are pending in this application. By this Amendment, claims 1 and 11 are amended, as is the specification. Claims 15-18 are added. The amendments to the claims, and the additional claims, introduce no new matter as they supported by the claims as originally filed, the specification at least at paragraphs [0093], [0107] - [0116], [0148] - [0150] and [0153], and Figs. 13 and 14. The amendments to the specification are made to correct informalities that Applicants discovered on detailed review of the application in preparation for filing this response. Claims 9, 13 and 14 are canceled without prejudice to, or disclaimer of, the subject matter recited in these claims. Figs. 13 and 14 are amended to correct an informality with the inclusion of replacement drawing sheets. Specifically, all references to "speed of cam 114" are corrected to read "speed of cam 112." Reconsideration of the application based on the above amendments and the following remarks is respectfully requested.

The Office Action, in paragraph 6, states that claims 4-8, 10 and 12 are allowed. Applicants appreciate the allowance of these claims. The Office Action, in paragraph 5, indicates that claim 11 contains allowable subject matter. Claim 11 is amended to independent form including all of the features of the base claim and any intervening claims. As such, claim 11 is allowable.

The Office Action, in paragraph 1, makes final the Restriction Requirement, which was previously promulgated. Claims 13 and 14 are canceled as drawn to a non-elected invention.

The Office Action, in paragraph 2, objects to the title as not being descriptive. The title is amended to obviate the objection. Withdrawal of the objection to the specification is respectfully requested.

The Office Action, in paragraph 4, rejects claims 1-3 and 9 under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 6,088,913 to Sakaguchi. The cancellation of claim 9 renders the rejection of this claim moot. As to claims 1-3, the rejection is respectfully traversed.

Sakaguchi teaches an apparatus and method for monitoring electronic parts in which uniaxial tables for positioning a board can be driven at high speed and the speed of mounting of the electronic part can be increased (Abstract). With reference to Figs. 1 and 2, Sakaguchi discloses a component-holding device 1, a board-supporting device 11, first relative movement devices 13, 14 and a control device 20. The control device includes a correction speed pattern-producing portion 23 which is operable to "correct" standard speed patterns, produced by a standard speed pattern-producing portion 22 (see Figs. 4A-4D), in accordance with a read natural vibration waveform, to produce a correction speed pattern (col. 4, lines 1-13, and Figs. 5 and 6). The purpose of this correction is to suppress the vibration of the board-supporting device in the form of uniaxial tables 11, 12 moved by the first relative-movement devices 13, 14.

Sakaguchi therefore teaches changing the standard or original pattern of control of the operating speed of the first relative-movement devices 13, 14, from a standard speed pattern to a speed pattern corrected to suppress, reduce or prevent the vibration. Sakaguchi neither discloses, nor suggests, an arrangement wherein the standard or original positioning data for positioning the component-holding device and the board-supporting device relative to each other are compensated for a positioning error value selected depending on the selected speed control pattern.

Claim 1 recites, among other features, a control device including a positioning portion operable to select one of a plurality of different positioning error values which is used to compensate positioning data used for said first relative-movement device to establish a

predetermined relative position between said component-holding device and said board-supporting device, such that said positioning data are compensated for said selected one of said plurality of different positioning error values, said positioning portion selecting said one of said plurality of different positioning error values, depending upon selected one of different patterns of control of an operating speed of said first relative-movement device. As such, the standard, or original, speed control pattern selected for maximizing the component mounting efficiency is maintained and is not required to be changed.

In other words, the subject matter recited in claim 1 does not require any decrease or increase of the speed of the relative movement between the component-holding device and the board-supporting device for any reason and specifically not to suppress the vibration of the component-holding device. The objective of Sakaguchi to improve the component mounting accuracy is based on a concept of suppressing (preventing or reducing) the vibration by changing the speed control pattern. A solution offered by the subject matter of the enumerated claims is to improve the component mounting accuracy based on eliminating the positioning error estimated to take place due to the vibration under the original speed control pattern by compensating the relative positioning data without requiring change of the speed control pattern.

For at least the above reasons, Applicants respectfully submit that Sakaguchi cannot reasonably be read to anticipate, or even to have suggested, the combination of all of the features recited in at least independent claim 1. Additionally, Sakaguchi neither discloses, nor would it have suggested, the combinations of all of the features recited in claims 2 and 3 for at least the respective dependence of these claims on independent claim 1, as well as for the separately patentable subject matter which claims 2 and 3 recite.

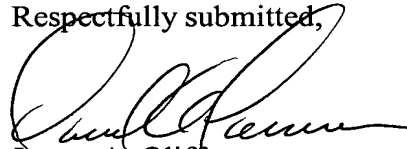
Accordingly, reconsideration and withdrawal of the rejection of claims 1-3 under 35 U.S.C. §102(e) as being anticipated by Sakaguchi are respectfully requested.

Finally, Applicants respectfully submit that new claims 15-18 are allowable for at least their respective dependence on independent claim 1 as well, in addition to the separately patentable subject matter recited in each of these claims.

In view of the foregoing, Applicants respectfully submit that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1-3 and 15-18 in addition to the allowed and allowable claims 4-8 and 10-12 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact Applicants' undersigned representative at the telephone number set forth below.

Respectfully submitted,



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JAO:DAT/fpw

Attachment:

Replacement Drawing Sheets (Figs. 13 and 14)

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